

SEQUENCE LISTING



<110> KIENY, Marie-Paule
BALLOUL, Jean-Marc
BIZOUARNE, Nadine

<120> ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
POLYPEPTIDE WITH MODIFIED CELL LOCATION

<130> 017753-122

<140> 09/462,993

<141> 2000-04-17

<150> PCT/FR98/01576

<151> 1998-07-17

<150> FR 97/09152

<151> 1997-07-18

<160> 23

<170> PatentIn Ver. 2.2

<210> 1

<211> 243

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Derived from
human papillomavirus, strain HPV-16, E6 protein
fused F protein signals, clone E6*TMF.

<400> 1

Met Gly Leu Lys Val Asn Val Ser Ala Ile Phe Met Ala Val Leu Leu
1 5 10 15

Thr Leu Gln Thr Pro Thr Gly Gln Ile His Trp Gly Met His Gln Lys
20 25 30

Arg Thr Ala Met Phe Gln Asp Pro Gln Glu Arg Pro Arg Lys Leu Pro
35 40 45

Gln Leu Cys Thr Glu Leu Gln Thr Thr Ile His Asp Ile Ile Leu Glu
50 55 60

Cys Val Tyr Cys Lys Gln Gln Leu Leu Arg Arg Glu Val Tyr Asp Phe
65 70 75 80

Ala Phe Arg Asp Leu Cys Ile Val Tyr Arg Asp Gly Asn Pro Tyr Ala

B

	85		90		95
Val Cys Asp Lys Cys Leu Lys Phe Tyr Ser Lys Ile Ser Glu Tyr Arg					
	100		105		110
His Tyr Cys Tyr Ser Leu Tyr Gly Thr Thr Leu Glu Gln Gln Tyr Asn					
	115		120		125
Lys Pro Leu Cys Asp Leu Leu Ile Arg Cys Ile Asn Cys Gln Lys Pro					
	130		135		140
Leu Gln Arg His Leu Asp Lys Lys Gln Arg Phe His Asn Ile Arg Gly					
	145		150		155
Arg Trp Thr Gly Arg Cys Met Ser Cys Cys Arg Ser Ser Arg Thr Arg					
			165		170
					175
Arg Glu Thr Gln Leu Gly Leu Ser Ser Thr Ser Ile Val Tyr Ile Leu					
			180		185
					190
Ile Ala Val Cys Leu Gly Gly Leu Ile Gly Ile Pro Ala Leu Ile Cys					
			195		200
					205
Cys Cys Arg Gly Arg Cys Asn Lys Lys Gly Glu Gln Val Gly Met Ser					
			210		215
					220
Arg Pro Gly Leu Lys Pro Asp Leu Thr Gly Thr Ser Lys Ser Tyr Val					
			225		230
					235
					240
Arg Ser Leu					

<210> 2

<211> 185

<212> PRT

<213> Artificial Sequence

<220>

<223> Derivated from human papillomavirus, strain
HPV-16, E7 fusion signals of the rabies
glycoprotein, clone E7*TMR.

<400> 2

Met Val Pro Gln Ala Leu Leu Phe Val Pro Leu Leu Val Phe Pro Leu
1 5 10 15
Cys Phe Gly Lys Phe Pro Ile Gly Ser Met His Gly Asp Thr Pro Thr
20 25 30
Leu His Glu Tyr Met Leu Asp Leu Gln Pro Glu Thr Thr Gln Leu Asn
35 40 45

Asp Ser Ser Glu Glu Glu Asp Glu Ile Asp Gly Pro Ala Gly Gln Ala
 50 55 60
 Glu Pro Asp Arg Ala His Tyr Asn Ile Val Thr Phe Cys Cys Lys Cys
 65 70 75 80
 Asp Ser Thr Leu Arg Leu Cys Val Gln Ser Thr His Val Asp Ile Arg
 85 90 95
 Thr Leu Glu Asp Leu Leu Met Gly Thr Leu Gly Ile Val Cys Pro Ile
 100 105 110
 Cys Ser Gln Lys Pro Arg Ser Tyr Val Leu Leu Ser Ala Gly Ala Leu
 115 120 125
 Thr Ala Leu Met Leu Ile Ile Phe Leu Met Thr Cys Cys Arg Arg Val
 130 135 140
 Asn Arg Ser Glu Pro Thr Gln His Asn Leu Arg Gly Thr Gly Arg Glu
 145 150 155 160
 Val Ser Val Thr Pro Gln Ser Gly Lys Ile Ile Ser Ser Trp Glu Ser
 165 170 175
 His Lys Ser Gly Gly Glu Thr Arg Leu
 180 185

B

<210> 3

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Derived from human papillomavirus, strain
 HPV-16, synthetic oligonucleotide oTG5118 (E7
 deleted 21 26), anti-sense.

<400> 3

tctgagctgt catttaattg agttgtctct ggttgc

36

<210> 4

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Derived from rabies virus, mutagenesis
 oligonucleotide oTG5745, non anti-sense

<400> 4
tgcactcagt aatacatagg atccaatagg gaatttccca aa

42

<210> 5
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide oTG6390, anti-sense.

<400> 5
gtatctccat gcatggatcc tgcaggggtt ctctacgt

38

<210> 6
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide oTG6880, anti-sense.

<400> 6
ggatccgccca tggtagatct tggtttctga gaacag

36

<210> 7
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Derivative from rabies virus, strain
HPV-16, synthetic oligonucleotide oTG5377 (E6
deleted 111 to 115), anti-sense.

<400> 7
tgtccagatg tctttgcagt ggcttttgac ag

32

<210> 8
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide oT10829, non anti-sense.

<400> 8

gcgcgctcta gaattatggg tctcaagggtg aacg

34

<210> 9

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide oTG10830, anti-sense.

<400> 9

cagttctctt ttggtgcatg cccaatgga tttga

35

<210> 10

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide oTG10835, non
anti-sense.

<400> 10

atgctagtgc tcgataaacc cagctgggtt tctctacg

38

<210> 11

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide oTG10836, anti-sense.

<400> 11

tcaaattccat tggggcatgc accaaaagag aactg

35

<210> 12

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide oTG10833, non
anti-sense.

<400> 12

cgtagagaaa cccagctggg tttatcgagc actagcat

38

<210> 13
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide oTG10834, anti-sense.

<400> 13
gcgggcatgc ggtacctcag agcgacctta catagg

36

<210> 14
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Derivated from vaccinia virus, strain modified
Ankara, synthetic oligonucleotide oTG7637 (PCR III
region), non anti-sense.

<400> 14
gggggggaat tcagtaaaact tgactaaatc tt

32

<210> 15
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Derivated from vaccinia virus, strain modified
Ankara, synthetic oligonucleotide oTG7638 (PCR III
region), anti-sense.

<400> 15
gggggggggat ccgagctcac cagccaccga aagagcaat

39

<210> 16
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Derivated from vaccinia virus, strain modified
Ankara, synthetic oligonucleotide oTG7635 (PCR III
region), non anti-sense.

<400> 16
gggggggat ccggaaagtt ttataggtag tt

32

<210> 17
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Derivated from vaccinia virus, strain modified
Ankara, synthetic oligonucleotide oTG7636 (PCR III
region), anti-sense.

<400> 17
gggggggaat tctttgtatt tacgtgaacg

30

<210> 18
<211> 77
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide oTG10502, non
anti-sense.

<400> 18
agctttttat tctatactta aaaaatgaaa ataaactcga gttgtcaaag catcatctca 60
acactgactt gaggtac 77

<210> 19
<211> 69
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide oTG10503, anti-sense.

<400> 19
ctcaagtcag tggtgagatg atgctttgac aactcgagtt tattttcatt ttttaagtat 60
agaataaaa 69

<210> 20
<211> 39
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide oTG5925, anti-sense.

<400> 20
tcagatctgt cgagggatct gcagcttctt ctagaggta

39

<210> 21
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide oTG5924, non anti-sense.

<400> 21
agtgaattgc tgcaggtacc cggatccgca tcgactatcg acat

44

<210> 22
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Derivated from Homo sapiens, strain Daudi cell
line, PCR primer oTG6353 (cloning B7.1), non
anti-sense.

<400> 22
tcagcccctg aattctgcgg acactgttat acagg

35

<210> 23
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Derivated from Homo sapiens, strain Daudi cell
line, PCR primer oTG6352 (cloning B7.1),
anti-sense.

<400> 23
ttgaccctaa agatctgaag ccatgggcca cac

33